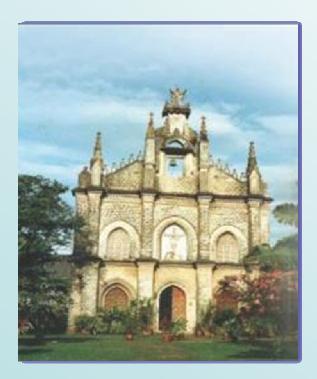
Societal Applications of Indian Space Programme: An Update



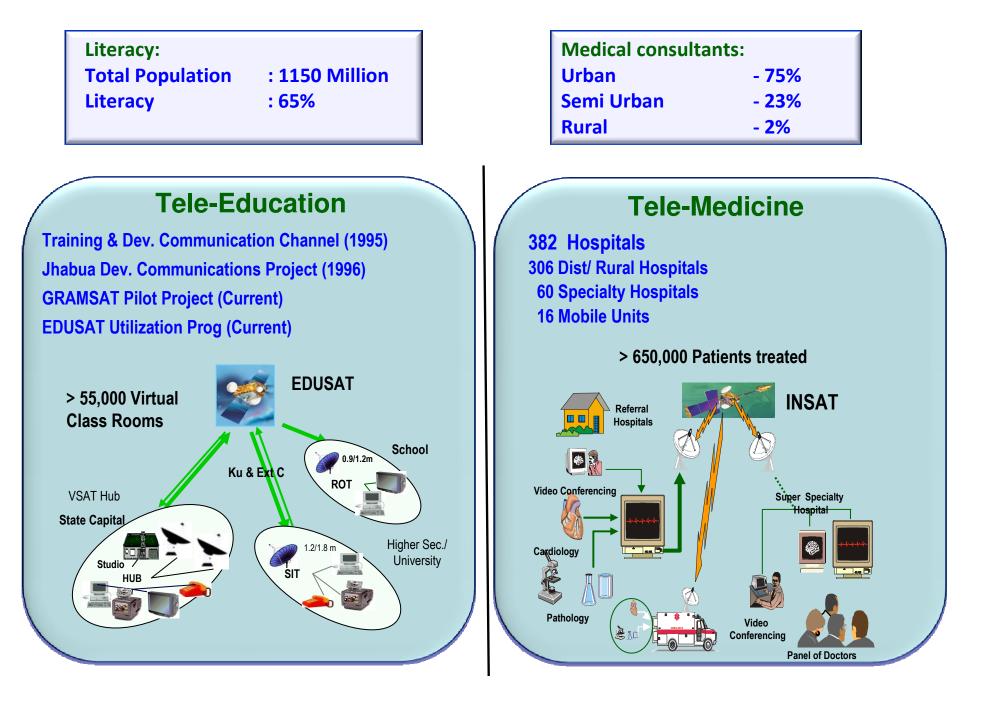


53rd Session of UNCOPUS - Vienna

June 9-18, 2010

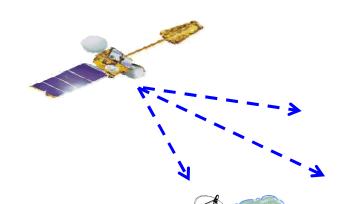


Space technology for Healthy & Knowledgeable Society



Village Resource Centre (VRC)

For Empowering Rural Community



VRC Coverage:	
States/ UT	: 22
No. of VRC	: 473
Expert Centres/Hospitals	: 75
No. of Programmes	: 6000

Single Window Delivery Mechanism for:

- Information on Land and Water Resources
 Dissemination of Weather & Disaster info
- •Tele education & Tele healthcare services
- •Advisories on Agriculture, Fisheries
- •Enhanced livelihood opportunities
- •Enabling the villagers with info on Price, Market, Pests, Diseases, Livestock, Govt. schemes, job opportunities, etc.

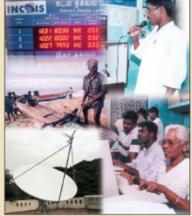














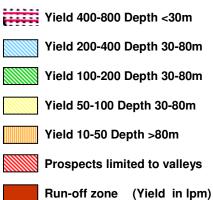
Groundwater Exploration & Recharge

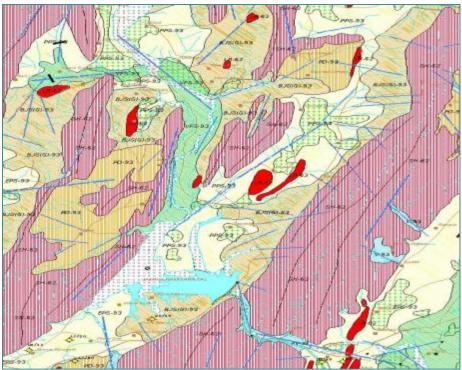
Rajiv Gandhi National Drinking Water Mission

- 1.6 billion (28%) lack safe drinking water;
 - 5 M die per year
- 1.5 billion people depend on GW for drinking
- GW Pumping > natural recharge @ 160 billion m³/year
 - 14 States completed; work is in progress in 6 states
 - 275,000 + Bore wells drilled with 90%
 + Success rate
 - 9,000 + Recharge structures constructed











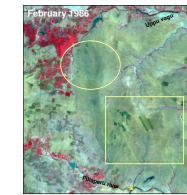
Wasteland Inventory

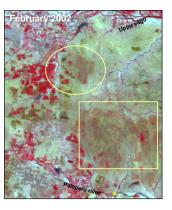
A Targeted Rural Development Programme: with village & watershed boundaries

- National Wasteland Inventory Project (1986 2000)
- National Wasteland Updation Mission (2003 2004)
- National Wasteland Updation using 2006 Ongoing
- Coverage : Entire India in 1: 50k scale
- $\circ~$ No. of Wasteland categories : 28
- Wasteland Change Analysis project using 2009 data taken up

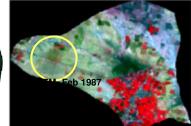


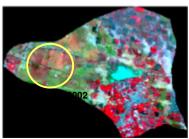
- 63. 85 mha -20.17% of India's TGA (1986 -2000 data)
- 55.27 mha 17.45% of India's TGA (2003 data)
- 46.43 mha 14.81% of India's TGA (2005 data)



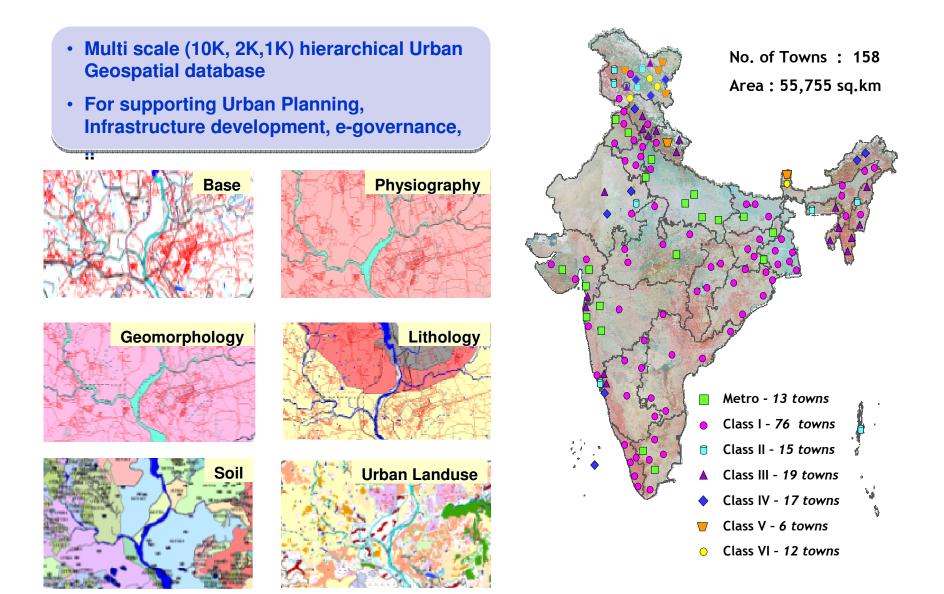














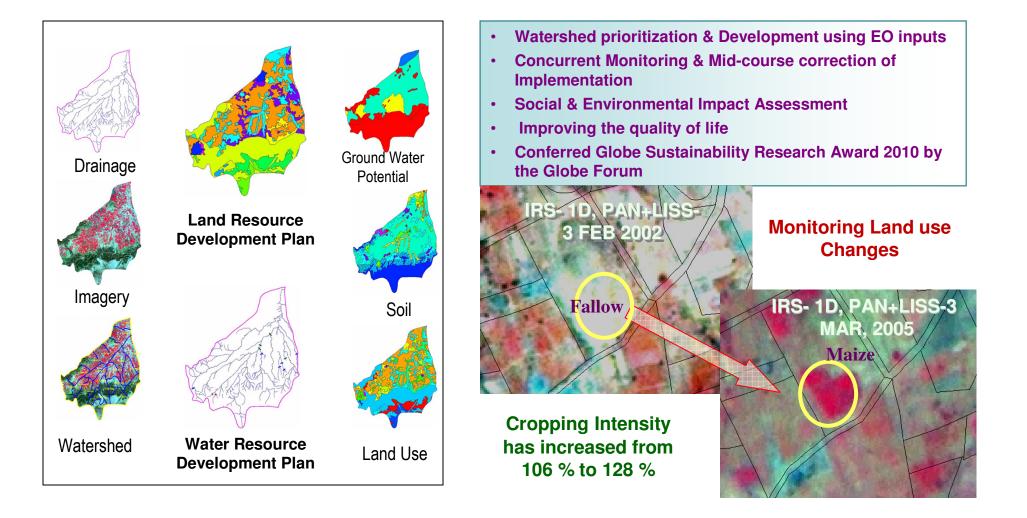
Improving Productivity in Drylands

Integrated Mission for Sustainable Development (IMSD)

Land & Water resources development plans for 84 Mha in 175 districts in country

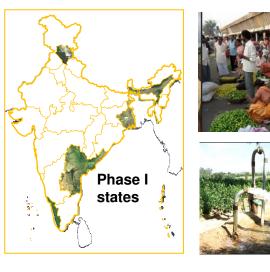
Participatory Land and Water Resources Management : Sujala

Monitoring & Evaluation of developmental activity in 77 sub-watersheds in 5 districts of Karnataka



Space based information support for decentralized planning

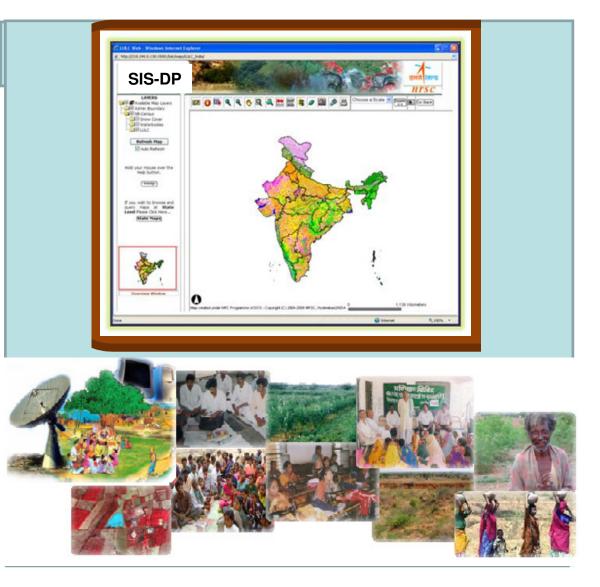
ICT enabled geospatial platform using space based data for planning & carrying out developmental activities in a decentralized and speedy manner involving local bodies



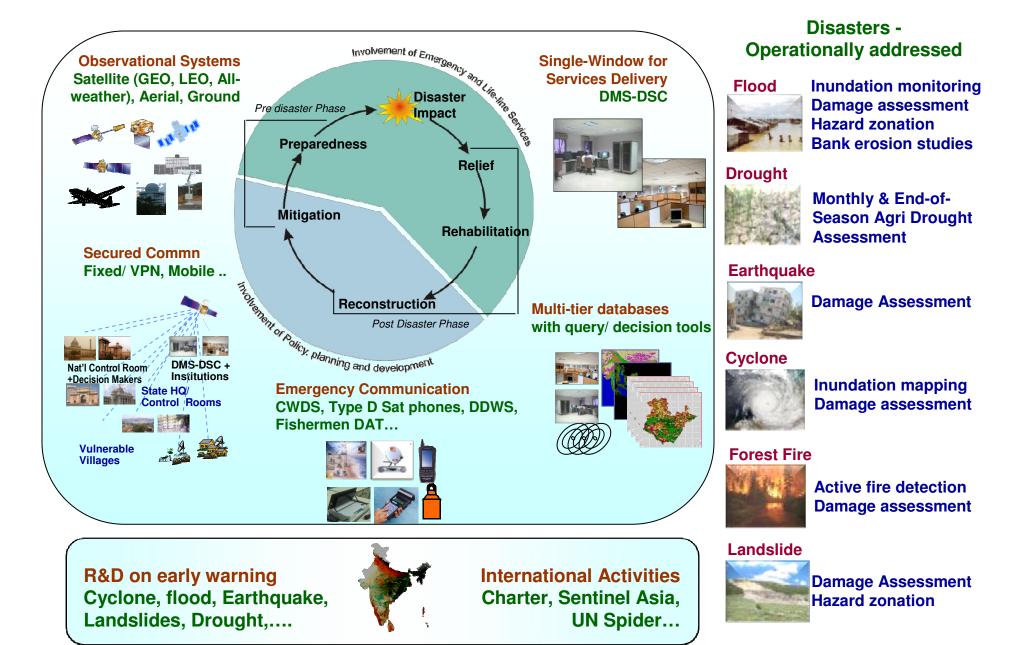


SIS-DP Objectives

- Input for Planning at Panchayat Level
- Land & water resources information at Cadastral level
- Tools for user driven applications for 0 speedy, accurate decision making;
- Dissemination of data through existing 0 network
- Capacity building in state departments 0

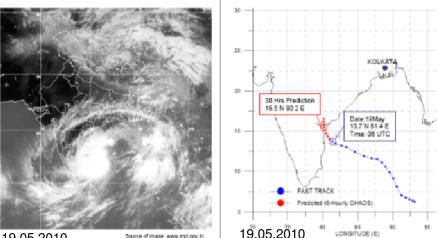


Disaster Management Support (DMS) System



Cyclone Laila - 20th May 2010

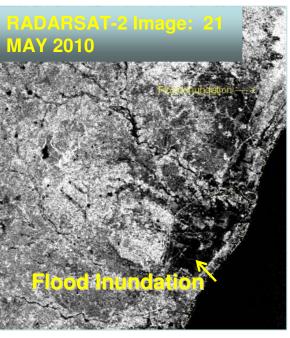
- Formed in the Bay of Bengal on 17th • May 2010
- Landfall near Bapatla in Prakasam • District on May 20th ,2010
- Many coastal districts in Andhra • Pradesh were worst affected.

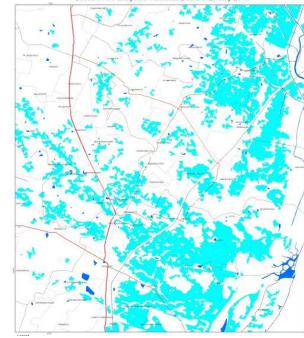


19.05.2010 Source of Image: week indicov k

IR image of Kalpana-1

Track prediction





Inundation Statistics

#	District	Inundated
	name	Area (ha)
1	Prakasam	39618
2	Nellore*	18734
3	Chittoor*	2768
	Total	61121

Note: Flood inundated districts with less than 1000 Ha are not considered.

Inundation in Prakasam District

Thank you for your kind attention

For further details: scientificsecretary@isro.gov.in